

INTERNATIONAL SEARCH REPORT

PCT/IB 03/05759

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B20/10 G11B27/10 G11B27/11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 107 254 A (PIONEER CORP) 13 June 2001 (2001-06-13)	1-5, 7-10, 15-21, 26-30
Y	abstract paragraph '0001! - paragraph '0010! paragraph '0046! - paragraph '0095! paragraph '0099! - paragraph '0104! figures 1-5,7 --- -/--	6, 11-14, 22-25, 31, 32



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

8 March 2004

Date of mailing of the international search report

19/04/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 089111 A (KENWOOD CORP; OSHIYAMA YUKIO (JP); TERADA HIROSHI (JP)) 7 November 2002 (2002-11-07)	1-5, 7-10, 15-21, 26-30
Y	-& EP 1 381 026 A 14 January 2004 (2004-01-14) abstract paragraph '0001! - paragraph '0021! paragraph '0082! - paragraph '0151! paragraph '0205! - paragraph '0241! figures 1-9,19-21	6,11-14, 22-25, 31,32
Y	US 6 243 328 B1 (ZOELS JAN-CHRISTOPH ET AL) 5 June 2001 (2001-06-05) abstract column 1, line 5 -column 2, line 10 column 7, line 52 -column 9, line 45 figure 8	6,11-14, 22-25, 31,32
A	DE 199 16 846 A (VOLKSWAGENWERK AG) 19 October 2000 (2000-10-19) the whole document	1,7,15, 26,28
A	US 2001/053686 A1 (HOVESTADT GUIDO ET AL) 20 December 2001 (2001-12-20) the whole document	1,7,15, 26,28
A	US 2002/048224 A1 (TALATINIAN GERARD V ET AL) 25 April 2002 (2002-04-25) the whole document	1,7,15, 26,28

INTERNATIONAL SEARCH REPORT

PCT/IB 03/05759

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1107254	A	13-06-2001	JP 2001155469 A EP 1107254 A2 US 2001053943 A1	08-06-2001 13-06-2001 20-12-2001
WO 02089111	A	07-11-2002	JP 2003058723 A JP 2003007037 A JP 2003058543 A JP 2003060813 A EP 1381026 A1 WO 02089111 A1 US 2004031377 A1	28-02-2003 10-01-2003 28-02-2003 28-02-2003 14-01-2004 07-11-2002 19-02-2004
US 6243328	B1	05-06-2001	NONE	
DE 19916846	A	19-10-2000	DE 19916846 A1	19-10-2000
US 2001053686	A1	20-12-2001	DE 10008440 A1 EP 1128385 A1	13-09-2001 29-08-2001
US 2002048224	A1	25-04-2002	US 6304523 B1 WO 03034433 A1 JP 2000215653 A	16-10-2001 24-04-2003 04-08-2000